

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| L1 | 464 | 382/171-172.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/06 09:07 |
| L2 | 14 | ((determin\$5 or measur\$6 or count\$3 tally\$3 or enumerat\$4 or sum\$6 or add\$3 or calculat\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total)) or (count\$3 tally\$3 enumerat\$4) near3 (ball\$1 object\$1 (solder near (bump\$1 or mark\$1)) bump\$1 mark\$1) and 1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/06 09:08 |
| S1 | 2 | "20030156748".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/01 13:40 |
| S2 | 1 | 2003-801853.NRAN. | DERWENT | OR | OFF | 2004/12/01 12:08 |
| S3 | 2 | "6744933".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/01 12:28 |
| S5 | 48 | ("5375832" "5835563" "4543571" "5333855" "5562285" "6219461" "6219461" "5926278" "6130959" "5490040" "6064757" "6150729" "5999647" "6064769" "6141443" "5602638" "5836834" "5551279" "5346210" "5446701" "5896463" "5982916" "6086487" "4325553" "4435905" "5042163" "5290037" "5401016" "5486002" "4509427" "4539753" "4868992" "5246232" "5401026" "5566934" "5567870" "5603165" "5658210" "5682230" "5861956" "5860648" "5935023" "5938545" "5987983" "6079278" "6110052" "6179720" "6186002" "6224613" "6224613").pn. | USPAT | OR | OFF | 2004/12/02 09:17 |
| S6 | 16 | (count\$3 near3 number with (object\$1 or ball\$1)) and (bga or ball\$grid\$array\$1 or (ball near grid near array\$1)) | USPAT | OR | OFF | 2004/12/02 09:19 |

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| S7 | 137 | ("3816722" "3936800" "3967100" "3968475" "3978326" "4011403" "4115702" "4115762" "4183013" "4200861" "4254400" "4300164" "4385322" "4441124" "4441206" "4534813" "4541116" "4570180" "4577344" "4581762" "4606065" "4617619" "4630306" "4688088" "4706168" "4728195" "4730260" "4731858" "4736437" "4742551" "4764870" "4771469" "4783826" "4783828" "4783829" "4831580" "4860374" "4860375" "4876457" "4876728" "4903218" "4907169" "4914553" "4922543" "4926492" "4932065" "4953224" "4955062" "4959898" "4962423" "4972359" "4982438" "5012402" "5046190" "5054096" "5060276" "5063608" "5073958" "5081656" "5081689" "5086478" "5090576" "5091861" "5091968" "5093867" "5113565" "5115309" "5119435" "5124622" "5133022" "5134575" "5143436" "5145432" "5151951" "5153925" "5159281" "5159645" "5164994" "5168269" "5185855" "5189712" "5206820" "5216503" "5225940" "5230027" "5243607" "5253306" "5253308" "5265173" "5271068" "5287449" "5297256" "5299269" "5311598" "5315388" "5319457" "5327156" "5337267" "5363507" "5367439" "5367667" "5371690" "5388197" "5388252" "5398292" "5432525" "5440699" "5455870" "5455933" "5475766" "5477138" "5481712" "5485570" "5491780" "5495424" "5495537" "5519840" "5526050" "5532739" "5550763" "5559904" "5566877" "5568563" "5574668" "5574801").PN. OR ("5583949" "5583954" "5592562" "5594859" "5598345" "5602937" "5608872" "5621811" "5640199" "5640200" "5652658" "5761337").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 09:36 |
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| S8 | 4 | ("5978502").URPN. | USPAT | OR | OFF | 2004/12/02 09:55 |
| S9 | 926 | (determin\$5 or count\$3 or sum\$6 or add\$3 or calculat\$3 enumerat\$3 tally\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total) and (bga or ball\$grid\$array\$1 or (ball near grid near array\$1)) | USPAT | OR | OFF | 2004/12/02 10:15 |
| S10 | 6 | (determin\$5 or count\$3 or sum\$6 or add\$3 or calculat\$3 enumerat\$3 tally\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total) and (bga or ball\$grid\$array\$1 or (ball near grid near array\$1)) and ((project\$3 near space\$1) or ((illuminat\$4 or brightness or radiance or intensity) near2 profile\$1)) | USPAT | OR | OFF | 2004/12/02 10:07 |
| S11 | 61 | (determin\$5 or count\$3 or sum\$6 or add\$3 or calculat\$3 enumerat\$3 tally\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total) near2 (object\$1 ball\$1 bottle\$1 solder\$3 bump\$1 thing\$1) and ((project\$3 near space\$1) or ((illuminat\$4 or brightness or radiance or intensity) near2 profile\$1)) | USPAT | OR | OFF | 2004/12/02 10:14 |
| S12 | 524 | 382/141.ccls. | USPAT | OR | OFF | 2004/12/02 10:15 |
| S15 | 690098 | (determin\$5 or measur\$6 or count\$3 or sum\$6 or add\$3 or calculat\$3 enumerat\$3 tally\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total) | USPAT | OR | OFF | 2004/12/03 09:19 |
| S16 | 309 | S12 and S15 | USPAT | OR | OFF | 2004/12/02 10:18 |
| S17 | 11 | ("4319840" "4340281" "4557773" "4845558" "4975972" "5181255" "5212637" "5331472" "5433904" "5463462" "5621488").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 10:26 |
| S18 | 4 | ("4688088" "5490084" "5513275" "5946409").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 10:40 |
| S19 | 2 | ("6137528").URPN. | USPAT | OR | OFF | 2004/12/02 10:45 |
| S20 | 58 | (count\$3 measur\$6 or determin\$6) near (number or quantit\$3 or amount) near2 (cigarette\$1) | USPAT | OR | OFF | 2004/12/02 10:47 |
| S21 | 6 | ("3625226").URPN. | USPAT | OR | OFF | 2004/12/02 10:58 |
| S22 | 29795 | (method apparatus device) with (counting) | USPAT | OR | OFF | 2004/12/02 15:07 |

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| S23 | 9494 | (method apparatus device) near2 (counting) | USPAT | OR | OFF | 2004/12/02 12:41 |
| S24 | 18 | (method apparatus device) near2 (counting) with (image near processing) | USPAT | OR | OFF | 2004/12/02 12:46 |
| S25 | 25 | (method apparatus device) near2 (counting) with (image near processing) | US-PGPUB; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/02 12:52 |
| S26 | 20 | "149685" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/02 12:52 |
| S27 | 1 | 1985-050164.NRAN. | DERWENT | OR | OFF | 2004/12/02 12:54 |
| S28 | 1 | 2004-710460.NRAN. | DERWENT | OR | OFF | 2004/12/02 12:56 |
| S29 | 4 | ("4791481" "5383135" "5544256" "5751834").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 13:20 |
| S30 | 3 | ("5936665").URPN. | USPAT | OR | OFF | 2004/12/02 14:10 |
| S31 | 114 | 382/204.ccls. | USPAT | OR | OFF | 2004/12/02 14:10 |
| S32 | 4 | ("4688088" "5490084" "5513275" "5946409").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 14:14 |
| S33 | 40 | ("2791695" "3214574" "3315229" "3353024" "3408485" "3461280").PN. OR ("3805028").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 14:45 |
| S34 | 143 | 382/192.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 15:02 |
| S35 | 267 | 382/192.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/02 14:45 |
| S36 | 491 | 382/145.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 15:02 |
| S37 | 491 | 382/145.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/12/02 15:02 |

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| S38 | 542 | 382/145.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/02 15:02 |
| S39 | 33646 | (determin\$5 or measur\$6 or count\$3 or sum\$6 or add\$3 or calculat\$3 enumerat\$3 tally\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total) near3 (solder\$4 or ball\$1 or block\$1 or cell\$1 or object\$1 or mark\$1) | USPAT | OR | OFF | 2004/12/02 15:07 |
| S40 | 4 | S38 and S39 | USPAT | OR | OFF | 2004/12/02 15:06 |
| S42 | 62089 | (determin\$5 or measur\$6 or count\$3 or sum\$6 or add\$3 or calculat\$3 enumerat\$3 tally\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total) near3 (solder\$4 or ball\$1 or block\$1 or cell\$1 or object\$1 or mark\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/02 15:19 |
| S43 | 10 | S38 and S42 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/02 15:39 |
| S44 | 69 | (number or quantity or amount or total) near2 (balls) near2 ((ball near grid near array) or bga) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/02 15:41 |
| S45 | 22 | ("5446960" "5465152" "5550763" "5574668" "5574801" "5621530" "5652658" "5656402" "5682242" "5694482" "5713666" "5796590").PN. OR ("6151406").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 16:10 |
| S46 | 1 | 2003-650375.NRAN. | DERWENT | OR | OFF | 2004/12/02 16:14 |
| S47 | 29 | ("4980971" "5060276" "5113565" "5226095" "5268999" "5343028" "5371690" "5471541" "5495537" "5497451" "5500906" "5545887" "5550763" "5602937" "5621807" "5625715" "5627912" "5627915" "5642158" "5663809" "5828769" "5850469" "5974169" "6026176" "6151406" "6154567" "6173070" "6324299").PN. OR ("6614926"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 16:44 |

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| S48 | 69 | 382/142.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/02 16:45 |
| S49 | 19623 | ((determin\$5 or measur\$6 or count\$3 tally\$3 or enumerat\$4 or sum\$6 or add\$3 or calculat\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total)) or (count\$3 tally\$3 enumerat\$4)) near3 (ball\$1 object\$1 (solder near (bump\$1 or mark\$1)) bump\$1 mark\$1) | USPAT | OR | OFF | 2004/12/03 09:23 |
| S50 | 45296 | ((determin\$5 or measur\$6 or count\$3 tally\$3 or enumerat\$4 or sum\$6 or add\$3 or calculat\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total)) or (count\$3 tally\$3 enumerat\$4)) near3 (ball\$1 object\$1 (solder near (bump\$1 or mark\$1)) bump\$1 mark\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/06 09:07 |
| S51 | 91 | 382/146.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 09:27 |
| S52 | 2 | S50 and S51 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 09:27 |
| S53 | 6 | ("4264202" "4398256" "4472056" "4531230" "4550432" "4553843").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/03 10:13 |
| S54 | 34 | ("4696047").URPN. | USPAT | OR | OFF | 2004/12/03 10:33 |
| S57 | 222 | 382/172.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 10:33 |
| S58 | 8 | S50 and S57 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 13:05 |

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| S59 | 4 | ((uniform or constant) distance\$1 same (total near distance\$1) same ((determin\$5 or count\$4) near (number quantity amount) with (object\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 13:11 |
| S60 | 554 | ((determin\$5 or count\$4) near (number quantity amount) with (object\$1)) with distance\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 15:56 |
| S61 | 114 | ((determin\$5 or count\$4) near (number quantity amount) near2 (object\$1)) with distance\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 13:18 |
| S62 | 43 | ((determin\$5 or count\$4) near (number quantity amount) near2 (object\$1)) near3 distance\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 13:54 |
| S63 | 21 | ((determin\$5 or count\$4) near (number quantity amount) near2 (ball\$1 mark\$1 lead\$1)) near3 distance\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 13:55 |
| S64 | 7 | ("3805239" "4675909" "4907288" "4959869" "4975972" "5018214" "5075872").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/12/03 14:35 |
| S65 | 45296 | (((determin\$5 or measur\$6 or count\$3 tally\$3 or enumerat\$4 or sum\$6 or add\$3 or calculat\$3 or total\$3) near2 (number\$1 or quantit\$3 or amount or total)) or (count\$3 tally\$3 enumerat\$4)) near3 (ball\$1 object\$1 (solder near (bump\$1 or mark\$1)) bump\$1 mark\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 15:04 |
| S66 | 792 | 382/282,286.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 15:04 |

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| S67 | 35 | S65 and S66 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 15:56 |
| S68 | 1 | ((determin\$5 or count\$4) near (number quantity amount)) with (divid\$4 near2 (total near distance\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 16:15 |
| S69 | 999 | histogram\$1 with distance\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 16:16 |
| S70 | 0 | S59 and (382/168,170,172.ccls.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 16:17 |
| S71 | 86 | S69 and (382/168,170,172.ccls.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/12/03 16:36 |